



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference WPP85454			ent's file reference	FOR FURTHER ACTION See Notification of Transmittat of International Preliminary Examination Report (Form PCT/IPEA/41 6)				
Inter	International application No.			International filing date	e (day/mon	th/year)	Priority date (day/month/year)	
	PCT/GB 03/01647			16.04,2003			11.06.2002	
	nation		ent Classification (IPC) o	r both netional classification	and IPC	,		
Appi RAF		DAM						
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2.	This			al of 6 sheets, including				
	Ø	hae	n amended and are th	panied by ANNEXES, I.e ne basis for this report ar ion 607 of the Administra	ıd⁄or ehee	ts containing	rtion, claims and/or drawings which have rectifications made before this Authority r the PCT).	
	The	3¢ 4n	nexes consist of a total	al of 3 sheets.		· · · · · · · · · · · · · · · · · · ·	·	
				•				
3.	This	геро	rt contains indications	relating to the following	items:		·	
	i	X	Basis of the opinion					
	(I)		Priority					
	tii -	⊠	Non-establishment	of opinion with regard to	noveity, i	nventive step	and Industrial applicability	
	IV		Lack of unity of inve					
	V Massoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or Industrial applicable citations and explanations supporting such statement					inventive etep or industrial applicability;		
	VI		Certain documents					
	VII			e international application			•	
	VIII		Certain observation	s on the international ap	plication			
Date	of sut	missk	on of the demand		Date of	completion of	this report	
06.0	1.20	04		•	20.09	.2004		
Drelir Nam	Name and mailing address of the international preliminary examining authority:				Authori	zed Officer	· Mis	
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fex: +49 89 2399 - 4465			Lebas Teleph	i, Y one No. +49 8	9 2399-8980			

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International application No.

PCT/GB 03/01647

l.	Basis	of the	report
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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages	·	92				
	1-50		as originally filed	1				
	Clai	ims, Numbers	·	.#				
	5 (p	art), 6-63, 77-135	as originally filed	\mathcal{A}_{i}				
	1-4, 5 (part), 64-76		received on 30.03.2004 with letter of 29.03.20	received on 30.03.2004 with letter of 29.03.2004				
	Dra	wings, Sheets	••	, i				
	1/8-	8/8	as originally filed	•				
2.	. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.							
	The	se elements were ave	ailable or furnished to this Authority in the following la	nguage: , which is:				
the language of a translation furnished for the purposes of the international search (under Rule 2								
The language of publication of the international application (under Rule 48.3(b)).								
the language of a translation furnished for the purposes of international preliminary examination Rule 55.2 and/or 55.3).								
With regard to any nucleotide and/or amino acid sequence disclosed in the international applica international preliminary examination was carried out on the basis of the sequence listing:								
		contained in the inter	mational application in written form.					
			e international application in computer readable form.	William St. Communication				
☐ furnished subsequently to this Authority in written form.				•				
		furnished subsequer	itly to this Authority in computer readable form.					
		in the international a	he subsequently furnished written sequence listing dopplication as filed has been furnished.	·				
		The statement that the listing has been furnitude.	he information recorded in computer readable form is ished.	identical to the written sequence				
4.	The	amendments have r	esulted in the cancellation of:	• •				
		the description,	pages:	·.				
		the claims,	Nos.:	•				
		the drawings,	sheets:	•				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).							
		(Any replacement sheet con report.)	taining s	uch amendr	ments must be referred	to under it	em 1 and	annexed to this	
6.	Ado	litional observations, if neces	sary:			٠			
111.	No	restablishment of opinion	with reg	ard to nove	elty, inventive step an	d industri	al applical	bility	
	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:								
		the entire international appli	cation,			٠,		•	
	Ø	claims Nos. 67,133				•			
		because:		٠.					
		the said international applicant require an international	ation, or to prelimina	the said clai Iry examinat	ms Nos. relate to the fo ion (specify):	llowing su	bject matte 	er which does	
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unce that no meaningful opinion could be formed (specify):						are so unclear		
		the claims, or said claims No could be formed.	os, are s	o inadequat	ely supported by the de	scription t	hat no mea	aningful opinlor	
		no international search repo	rt has be	en establis	ned for the said claims	Nos.	·:·		
 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleo or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 						nucleotide and istrative			
		the written form has not bee	n furnist	ned or does	not comply with the Sta	andard.	¥;		
		the computer readable form	has not	been fumisi	hed or does not comply	with the S	standard.		
٧.	Re	esoned statement under Ar ations and explanations su	ticle 35(pportlng	2) with regs such state	ard to novelty, inventi ment	ve step o	r industria	l applicability;	
1.	Sta	tement				:			
•	No	velty (N)	Yes: No:	Claims Claims	2-66, 69-132, 134-135 1, 68				
	Inv	entive step (IS)	Yes: No:	Claims Claims	1-66, 68-132, 134-13	, 35			
	Ind	lustrial applicability (IA)	Yes: No:	Claims -	1-66, 68-132, 134-13	35	, ·		
2.	Cit	ations and explanations							

see separate sheet

International application No. PCT/GB 03/0164-7

Cited Document:

D1: WO 98/48969 A (NIEDERNDORFER FRIEDRICH ;BERGER FRITZ (AT); GRAF STRACHWITZ VON GR) 5 November 1998 (1998-11-05)

From the available prior art, the subject matter of D1 is considered to represent the closest to that of the present application.

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Independent claims 67 and 133 contravene Rule 6.2(a) PCT and should therefore have been deleted.

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- The subject-matter of independent claim 1 is not novel (Art 33(2) PCT). All the 1a. technical features of claim 1 are indeed already disclosed in D1:
 - a communications device ("Gegenstand" in D1, claim 1, line 1) comprising:
 - a memory ("Speichereinheit" in D1, claim 1, line 7) adapted to store at least one profile of a user of the device, wherein the said at least one profile contains predetermined attributes and requirements of the user ("personenbezogenen Daten" in claim 1, lines 10-11 and 16-17);
 - a transceiver adapted to transmit information relating to the said requirements to a compatible device and receive information relating to requirements of the said compatible device ("Sendeeinheit" in claim 1, lines 11-12 and "Empfangseinheit" in claim 1, lines 13-14);
 - a controller adapted to register a match between the said device and said compatible device ("Auswerteeinheit" in claim 1, lines 14-18), only when the said attributes match the said requirements of the said compatible device (see page 10, lines 16-24 and 34-37), when active device 2 belongs to a "seeking" person, only "Soll-Daten", ie requirements, are sent to the compatible device which compares them with its own "Ist-Daten"); and

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a user alert adapted to alert a user when the controller has established that a match has been made ("Ausgabevorrichtung" in claim 1, lines 17-20); wherein the transceiver is further adapted to transmit a first match signal to the compatible device when the controller has established that a match has been made (page 20, lines 17-23); wherein the said device does not need to receive information relating to attributes of the said compatible device, in order to register a match with the said compatible device (explicit in page 10, lines 34-37).

- 1b. In his letter of reply to the first Written Opinion, the Applicant rose several objections concerning the lack of novelty of claim 1. Each one of these objections has been considered by the Examiner.
 - 1) "in contrast to D1, devices according to the present invention never require attributes to be sent in order to register a match"; the communications devices of D1 are able to match between received requirements ("Soll-Daten") and own attributes ("Ist-Daten"), like specified in page 18, lines 16-18. The devices according to the present invention offer in fact less possibilities than the devices of D1.
 - 2) "[in D1], the user of the active device might never realise that its requirements matched attributes on the passive device":

like already mentioned in point 1a, a match in the system of D1 ("positive Auswertung" in D1, page 20, lines 18-22) would trigger the sending of localisation information to the matching device, thereby making it realise that a match has been found.

- 3) "a match signal is not disclosed or suggested [in D1]":
 The localisation information sent to the matching device, mentioned in D1, page 20, lines 18-22, is a "match signal".
- 2. Independent claim 68 is a claim for a method corresponding to the apparatus of claim 1.

The arguments set out for the subject-matter of claim 1 (see points 1a and 1b) also apply to the subject-matter of claim 68.

Therefore, as for claim 1, the subject-matter of independent claim 68 is not novel having regard to D1 (Articles 33(1) and 33(2) PCT).

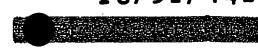
INTERNATIONAL PRELIMINARY International application No. PCT/GB 03/01647 EXAMINATION REPORT - SEPARATE SHEET

3. The additional features of dependent claims 2-66, 134, 135 and 69-132, additional features of inventive significance to respectively claim 1 and claim 68, being features readily apparent to a skilled person based on his common general knowledge of the art (Article 33(1)-(3) PCT).

Formal deficiencies in the international application:

- a. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- b. The independent claims are not in the two-part form required by Rule 6.3(b) PCT, with a preamble based on D1.
- c. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.
- d. According to Rule 6.4 (c) EPC, all dependent claims shall be grouped together appropriately. This is not the case for present claims 134-135, which should be grouped with the independent apparatus claim 1.





ANNEXES TO IPER

DT05 Rec'd PCT/PTO 1 0 DEC 2004

CLAIMS:

1. A communications device comprising:

a memory adapted to store at least one profile of a user of the device, wherein the said at least one profile contains predetermined attributes and requirements of the user,

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a transceiver adapted to transmit information relating to the said requirements to a compatible device and receive information relating to requirements of the said compatible device;

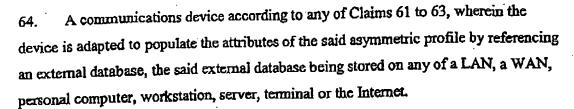
a controller adapted to register a match between the said device and the said compatible device, only when the said attributes match the said requirements of the said compatible device; and

a user alert adapted to alert a user when the controller has established that a match has been made;

wherein the transceiver is further adapted to transmit a first match signal to the compatible device when the controller has established that a match has been made;

wherein the said device does not need to receive information relating to attributes of the said compatible device, in order to register a match with the said compatible device.

- 2. A communications device according to Claim 1, wherein the user alert is further adapted to alert the user only when the controller has established that a match has been made and that a match signal has been received from the compatible device, said match signal indicating that the compatible device has registered a corresponding match.
- 3. A communications device according to Claim 1 or 2, wherein the device further comprises a display.
- 4. A communications device according to Claim 3, wherein the display is adapted to display an indication of the or each profile stored in the device.
- 5. A communications device according to Claim 4, wherein the device is further adapted to allow the user to designate which of the stored at least one profiles the user designates as active; the said memory is further adapted to store an indication of the



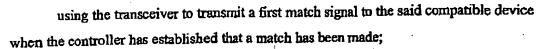
- 65. A communications device according to Claim 64, wherein the device is adapted to store the results of the reference to the external database after a match has been established, if the user of the compatible device becomes out of range before the user of the device is be alerted to the match; and alert the user to the match if the user of the compatible device becomes in range again within a predetermined time period, without referring to the external database again.
- 66. A communications device according to Claim 51 or any claim dependent on Claim 51, wherein the device is adapted to upload the or each said profile to a central database, said central database being adapted to store location information relating to the users; and match users based on the attributes and requirements of the or each said profile and the location information relating to the users.
- 67. A communications device substantially as hereinbefore described with reference to the accompanying drawings.
- 68. A communications method comprising the steps of:

storing at least one profile of a user in a memory of a communications device, wherein the or each said profile contains predetermined attributes and requirements of the user;

using a transceiver of the device to transmit information relating to the said requirements to a compatible device and receive information relating to requirements of the said compatible device;

using a controller to register a match between the said device and the said compatible device, only when the said attributes match the said requirements of the said compatible device;

using a user alert to alert a user when the controller has established that a match has been made; and



wherein the said device does not need to receive information relating to attributes of the said compatible device, in order to register a match with the said compatible device.

- 69. A communications method according to Claim 68, wherein the user is alerted only when a match has been registered and a match signal has been received from the compatible device, the said match signal indicating that the compatible device has registered a corresponding match.
- 70. A communications method according to Claim 68 or 69, further comprising the step of using a display to display an indication of the profiles stored in the device.
- 71. A communications method according to Claim 70, further comprising the steps of allowing the user to designate which of the stored at least one profiles are designated as active; storing an indication of the active profile or profiles in the memory; and exchanging information with a compatible device based only on the active profile or profiles.
- 72. A communications method according to Claim 71, further comprising the step of using a keypad to activate a profile from those stored in the device.
- 73. A communications method according to Claim 72, further comprising the step of using the display to display an indication of the active profile or profiles.
- 74. A communications method according to any of claims 68 to 73, wherein the memory comprises a combination of volatile and non-volatile memory.
- 75. A communications method according to any of claims 68 to 74, further comprising the step of using the user alert to provide a visual indication to the user.
- 76. A communications method according to Claim 75 when dependent on Claim 70, further comprising the step of providing the visual indication using the display.



CLAIMS:

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1. A communications device comprising:

a memory adapted to store at least one profile of a user of the device, wherein the said at least one profile contains predetermined attributes and requirements of the user;

a transceiver adapted to transmit information relating to the said requirements to a compatible device and receive information relating to requirements of the said compatible device;

a controller adapted to register a match between the said device and the said compatible device, only when the said attributes match the said requirements of the said compatible device; and

a user alert adapted to alert a user when the controller has established that a match has been made;

wherein the transceiver is further adapted to transmit a first match signal to the compatible device when the controller has established that a match has been made;

wherein the said device does not need to receive information relating to attributes of the said compatible device, in order to register a match with the said compatible device.

- 2. A communications device according to Claim 1, wherein the user alert is further adapted to alert the user only when the controller has established that a match has been made and that a match signal has been received from the compatible device, said match signal indicating that the compatible device has registered a corresponding match.
- 3. A communications device according to Claim 1, wherein the device further comprises a display.
- 4. A communications device according to Claim 3, wherein the display is adapted to display an indication of the or each profile stored in the device.
- 5. A communications device according to Claim 4, wherein the device is further adapted to allow the user to designate which of the stored at least one profiles the user designates as active; the said memory is further adapted to store an indication of the

- 7. A communications device according to Claim 5, wherein the display is further adapted to display an indication of the active profiles.
- 8. A communications device according to Claim 1, wherein the memory comprises a combination of volatile and non-volatile memory.
- 9. A communications device according to Claim 1, wherein the user alert is adapted to provide a visual indication to the user.
- 10. A communications device according to Claim 3, wherein the user alert is adapted to provide a visual indication to the user using the display.
- 11. A communications device according to Claim 9, wherein the user alert comprises at least one LED.
- 12. A communications device according to Claim 1, wherein the user alert is adapted to provide an audible indication to the user.
- 13. A communications device according to Claim 1, wherein the user alert is adapted to provide a vibrating indication to the user.
- 14. A communications device according to Claim 1, wherein the or each said profile comprises a self-describing data file, each self-describing data file comprising at least one field.

53 A communications device according to Claim 1, wherein the or each said profile 15. comprises at least one of a plurality of possible field types. A communications device according to Claim 1, wherein the or each said profile 16. comprises one or more sets of fields of a keyword type, said one or more sets of fields allowing matching to be performed against user determined free text. A communications device according to Claim 1, wherein the or each said profile 17. comprises a field that can contain a mandatory flag, the said mandatory flag indicating to the device whether blank fields are required to always or never be matched against. A communications device according to Claim 1, wherein the memory is adapted 18. to store multiple instances of the same profile type; wherein the device is adapted to: match all the multiple instances of the same profile in a matching process that involves transmitting a two dimensional matrix of flags that indicate a match or no match, the columns of said matrix being indexed on the instances of the profile stored in the memory; receive a corresponding two dimensional matrix from the compatible device; transform the received matrix; and compare the transformed received matrix with the sent matrix to identify any and all matches for this profile type. A communications device according to Claim 1, wherein the or each said profile 19. comprises a header section, the header section comprising a unique profile ID of the respective profile. A communications device according to Claim 19, wherein the header section is 20. the only section of the or each said profile that cannot be modified by the user. A communications device according to Claim 1, wherein the attributes and 21. requirements of the or each said profile are determined by the user. A communications device according to Claim 1, wherein the device is adapted 22. to communicate with a suitably programmed computer.

54 A communications device according to Claim 22, wherein the device is adapted 23. to communicate with the suitably programmed computer using a cable connection between the device and the suitably programmed computer. A communications device according to Claim 22, wherein the device is adapted 24. to communicate with the suitably programmed computer using the said transceiver. A communications device according to Claim 22, wherein the said device is 25. adapted to store the populated at least one profile, upon receipt of information relating to the said attributes and requirements from the said computer. A communications device according to Claim 22, wherein the said device is 26. adapted to store new profile types, upon receipt of information relating to the said new profile types from the said suitably programmed computer. A communications device according to Claim 26, wherein the said information 27. relating to the said new profile types has been downloaded to the said suitably programmed computer from any of the Internet, an email attachment, or a MMS attachment. A communications device according to Claim 1, wherein the device further 28. comprises a timer and a timing register, and wherein the timing register is adapted to store timing information for the or each said profile. A communications device according to Claim 28, wherein the timing 29. information comprises a predetermined active period for the or each said profile. A communications device according to Claim 28, wherein the timing 30. information comprises a schedule relating to the activation and deactivation of the or each said profile at user defined times. A communications device according to Claim 1, wherein the device is further 31. adapted to store a unique ID of the device.

- 32. A communications device according to Claim 1, wherein the memory comprises a recent encounters cache, the said recent encounters cache comprising a list of received unique IDs of compatible devices that have communicated with the device.
- 33. A communications device according to Claim 1, wherein the device is further adapted to allow the user to blacklist compatible devices after the establishment of a match, and wherein the memory comprises a blacklist cache, the said blacklist cache comprising a list of received unique IDs of compatible devices that the user has blacklisted.
- 34. A communications device according to Claim 1, wherein the device further comprises a probe alert, the said probe alert being adapted to aid the user physically to locate the user of the compatible device once a match has been established.
- 35. A communications device according to Claim 34, wherein the said probe alert is adapted to provide a visual location indication to the user.
- 36. A communications device according to Claim 35, wherein the said probe alert comprises at least one LED.
- 37. A communications device according to Claim 34, wherein said probe alert is adapted to provide the visual location indication to the user using the display.
- 38. A communications device according to Claim 34, wherein the said probe alert is adapted to provide an audible location indication.
- 39. A communications device according to Claim 34, wherein the said probe alert is adapted to provide a vibrating location indication.
- 40. A communications device according to Claim 1, wherein the device is further adapted to store at least one handle, the or each said handle generally comprising a

string of characters, and wherein the device is adapted to enable the or each said handle to be sent to the compatible device on the establishment of a match.

- 41. A communications device according to Claim 40, wherein the or each said handle comprises information pertaining to the established match.
- 42. A communications device according to Claim 1, wherein the memory is further adapted to store a match log, the said match log comprising information regarding previously established matches.
- 43. A communications device according to Claim 40, wherein a match log is stored in the memory, the match log comprising information regarding previously established matches and a unique ID of each previously matched compatible device along with match information comprised in any received handles.
- 44. A communications device according to Claim 42, wherein the match log further comprises information regarding details of communications between the device and compatible devices that did not result in a match.
- 45. A communications device according to Claim 42, wherein the device is further adapted to upload the contents of the match log to a suitably programmed computer.
- 46. A communications device according to Claim 19, wherein the memory is adapted to store only profiles that comprise a predetermined flag in the header section.
- 47. A communications device according to Claim 46, wherein the predetermined flag is formed from a number of bits of the Profile ID, and wherein the device is adapted to only match with compatible devices that have at least one stored profile with an identical corresponding bit set of the predetermined flag.
- 48. A communications device according to Claim 1, wherein the transceiver is adapted to exchange information with the compatible device using short range wireless communications.

- 49. A communications device according to Claim 48, wherein the short range wireless communications employs radio or microwave transmission.
- 50. A communications device according to Claim 48, wherein the wireless communication employs Bluetooth or Wi-Fi transmission.
- 51. A communications device according to Claim 48, wherein the wireless communication employs any location aware telecommunications network.
- 52. A communications device according to Claim 51, wherein the location aware telecommunications network employs 3G transmission.
- 53. A communications device according to Claim 1, wherein the transceiver is adapted to exchange information with the compatible device using long range wireless communications.
- 54. A communications device according to Claim 1, wherein the device is a portable device.
- 55. A communications device according to Claim 54, wherein the portable device is any one of, or a combination of: a mobile telephone, a PDA, a pager, a palmtop computer, a notebook computer or a laptop computer.
- A communications device according to Claim 55, wherein the device is further adapted to perform any one of, or a combination of: populating the or each said profile, creating new profiles, connecting to the Internet or accessing email or MMS attachments and downloading new profiles.
- 57. A communications device according to Claim 1, wherein the device is not portable.

58 A communications device according to Claim 57, wherein the device is any of: a 58. personal computer, workstation, server, or terminal. A communications device according to Claim 57, wherein the device is adapted 59. to perform any one of, or a combination of: populating the or each said profile, creating new profiles, connecting to the Internet or accessing email of MMS attachments and downloading new profiles. A communications device according to Claim 14, wherein the memory is 60. adapted to store at least one profile that is a symmetric profile, the said symmetric profile comprising a set of attributes and requirements fields which is adapted to be symmetric with respect to that of a compatible device. A communications device according to Claim 14, wherein the memory is 61. adapted to store at least one profile that is an asymmetric profile, the said asymmetric profile comprising a set of attributes and requirements fields that is adapted to be asymmetric with respect to that of a compatible device. A communications device according to Claim 61, wherein the device is adapted 62. to store an indication of whether the user is a provider or a finder in the profile. A communications device according to Claim 61, wherein the said asymmetric 63. profile comprises multiple instances of the attributes of the user. A communications device according to Claim 61, wherein the device is adapted 64. to populate the attributes of the said asymmetric profile by referencing an external database, the said external database being stored on any of a LAN, a WAN, personal computer, workstation, server, terminal or the Internet. A communications device according to Claim 64, wherein the device is adapted 65. to store the results of the reference to the external database after a match has been established, if the user of the compatible device becomes out of range before the user of the device is be alerted to the match; and alert the user to the match if the user of the

compatible device becomes in range again within a predetermined time period, without referring to the external database again.

- 66. A communications device according to Claim 51, wherein the device is adapted to upload the or each said profile to a central database, said central database being adapted to store location information relating to the users; and match users based on the attributes and requirements of the or each said profile and the location information relating to the users.
- 67. A communications method comprising the steps of:

storing at least one profile of a user in a memory of a communications device, wherein the or each said profile contains predetermined attributes and requirements of the user;

using a transceiver of the device to transmit information relating to the said requirements to a compatible device and receive information relating to requirements of the said compatible device;

using a controller to register a match between the said device and the said compatible device, only when the said attributes match the said requirements of the said compatible device;

using a user alert to alert a user when the controller has established that a match has been made; and

using the transceiver to transmit a first match signal to the said compatible device when the controller has established that a match has been made;

wherein the said device does not need to receive information relating to attributes of the said compatible device, in order to register a match with the said compatible device.

- 68. A communications method according to Claim 67, wherein the user is alerted only when a match has been registered and a match signal has been received from the compatible device, the said match signal indicating that the compatible device has registered a corresponding match.
- 69. A communications method according to Claim 67, further comprising the step of using a display to display an indication of the profiles stored in the device.

- 70. A communications method according to Claim 69, further comprising the steps of allowing the user to designate which of the stored at least one profiles are designated as active; storing an indication of the active profile or profiles in the memory; and exchanging information with a compatible device based only on the active profile or profiles.
- 71. A communications method according to Claim 70, further comprising the step of using a keypad to activate a profile from those stored in the device.
- 72. A communications method according to Claim 71, further comprising the step of using the display to display an indication of the active profile or profiles.
- 73. A communications method according to Claim 67, wherein the memory comprises a combination of volatile and non-volatile memory.
- 74. A communications method according to Claim 67, further comprising the step of using the user alert to provide a visual indication to the user.
- 75. A communications method according to Claim 67, further comprising the step of providing the visual indication using a display.
- 76. A communications method according to Claim 74, further comprising the step of providing the visual indication using at least one LED.
- 77. A communications method according to Claims 67, further comprising the step of using the user alert to provide an audible indication to the user.
- 78. A communications method according to Claim 67, further comprising the step of using the user alert to provide a vibrating indication to the user.

61 A communications method according to Claim 67, wherein the or each said 79. profile comprises a self-describing data file, each self-describing data file comprising at least one field. A communications method according to Claims 67, wherein the or each said 80. profile comprises at least one of a plurality of possible field types. A communications method according to Claim 67, wherein the or each said 81. profile comprises one or more sets of fields of a keyword type, said one or more sets of fields allowing matching to be performed against user determined free text. A communications method according to Claim 67, wherein the or each said 82. profile comprises a field that can contain a mandatory flag, the said mandatory flag indicating to the device whether blank fields are required to always or never be matched against. A communications method according to Claim 67, further comprising the steps 83. use storing multiple instances of the same profile type in the memory; matching all the multiple instances of the same profile in a matching process that involves transmitting a two dimensional matrix of flags that indicate a match or no match, the columns of said matrix being indexed on the instances of the profile stored in the memory; receiving a corresponding two dimensional matrix from the compatible device; transforming the received matrix; and comparing the transformed received matrix with the sent matrix to identify any and all matches for this profile type. A communications method according to Claim 67, wherein the or each said 84. profile comprises a header section, the header section comprising a unique profile ID of the respective profile. A communications method according to Claim 84, wherein the header section is 85. the only section of the or each said profile that cannot be modified by the user.

- 86. A communications method according to Claim 67, wherein the user determines the attributes and requirements of the at least one profile.
- 87. A communications method according to Claim 67, wherein the device communicates with a suitably programmed computer.
- 88. A communications method according to Claim 87, wherein the device communicates with the suitably programmed computer using a cable connection between the device and the suitably programmed computer.
- 89. A communications method according to Claim 87, wherein the device communicates with the suitably programmed computer using the said transceiver.
- 90. A communications method according to Claim 87, wherein the device stores the populated at least one profile, upon receipt of information relating to the said attributes and requirements from the said computer.
- 91. A communications method according to Claim 87, wherein the device stores new profile types, upon receipt of information relating to said new profile types from said suitably programmed computer.
- 92. A communications method according to Claim 91, wherein the said information relating to the said new profile types is downloaded to said suitably programmed computer from any of the Internet, an email attachment or MMS attachment.
- 93. A communications method according to Claim 67, further comprising the step of storing timing information for the or each said profile in a timing register.
- 94. A communications method according to Claim 93, wherein the timing information comprises a predetermined active period for the or each said profile.

- 95. A communications method according to Claim 93, wherein the timing information comprises a schedule relating to the activation and deactivation of the or each said profile at user defined times.
- 96. A communications method according to Claims 67, wherein the device stores a unique ID of the device.
- 97. A communications method according to Claims 67, wherein the memory comprises a recent encounters cache, the said recent encounters cache comprising a list of received unique IDs of compatible devices that have communicated with the device.
- 98. A communications method according to Claim 67, wherein the user can optionally blacklist compatible devices after the establishment of a match, and wherein the memory comprises a blacklist cache, the said blacklist cache comprising a list of received unique IDs of compatible devices that the user has blacklisted.
- 99. A communications method according to Claim 67, further comprising the step of using a probe alert to aid the user to physically locate the user of the compatible device once a match has been established.
- 100. A communications method according to Claim 99, wherein the said probe alert provides a visual location indication to the user.
- 101. A communications method according to Claim 100, wherein the said probe alert comprises at least one LED.
- 102. A communications method according to Claim 99, wherein the said probe alert uses the display to provide the visual location to the user.
- 103. A communications method according to Claim 99, wherein the said probe alert provides an audible location indication to the user.

the contents of the match log to a suitably programmed computer.

A communications method according to Claim 84, wherein only profiles that

A communications method according to Claim 111, wherein the predetermined

comprise a predetermined flag in the header section are stored in the memory.

flag is formed from a number of bits of the Profile ID, and wherein the device only

110.

111.

attempts to match with compatible devices that have at least one stored profile with an identical corresponding bit set of the predetermined flag.

- 113. A communications method according to Claim 67, wherein the transceiver exchanges information with the compatible device using short range wireless communications.
- 114. A communications method according to Claim 113, wherein the short range wireless communications employs radio or microwave transmission.
- 115. A communications method according to Claim 113, wherein the wireless communications employs Bluetooth or Wi-Fi transmission.
- 116. A communications method according to Claim 113, wherein the wireless communication employs any location aware telecommunications network.
- 117. A communications method according to Claim 116, wherein the location aware telecommunications network employs 3G transmission.
- 118. A communications method according to Claim 67, wherein the transceiver exchanges information with the compatible device using long range wireless communications.
- 119. A communications method according to Claim 67, wherein the device is a portable device.
- 120. A communications method according to Claim 119, wherein the portable device is any one of or a combination of: a mobile telephone, a PDA, a pager, a palmtop computer, a notebook computer or a laptop computer.
- 121. A communications method according to Claim 120, further comprising the steps of using the portable integrated device to perform any one of, or a combination of:

66 populating the or each said profile, creating new profiles, connecting to the Internet or accessing email or MMS attachments and downloading new profiles. A communications method according to Claim 67, wherein the device is not 122. portable. A communications method according to Claim 122, wherein the device is any 123. of: a personal computer, workstation, server, or terminal. A communications method according to Claim 122, further comprising the steps of using the device to perform any one of, or a combination of: populating the or each said profile, creating new profiles, connecting to the Internet or accessing email or MMS attachments and downloading new profiles. A communications method according to Claim 79, wherein at least one profile 125. that is a symmetric profile is stored in the memory, the said symmetric profile comprising a set of attributes and requirements fields which is adapted to be symmetric with respect to that of a compatible device. A communications method according to Claim 79, wherein the memory is 126. adapted to store at least one profile that is an asymmetric profile, the said asymmetric profile comprising a set of attributes and requirements fields that is adapted to be asymmetric with respect to that of a compatible device. A communications method according to Claim 126 when dependent on Claim 127. 85, wherein the device is adapted to store an indication of whether the user is a provider or a finder in the profile. A communications method according to Claim 126, wherein the said 128. asymmetric profile comprises multiple instances of the attributes of the user. A communications method according to any of Claims 126, wherein the device 129. populates the attributes of the said asymmetric profile by referencing an external

database, the said external database being stored on any of a LAN, a WAN, personal computer, workstation, server, terminal or the Internet.

- 130. A communications method according to Claim 129, further comprising the steps of storing the results of the reference to the external database after a match has been established, if the user of the compatible device becomes out of range before the user of the device is be alerted to the match; and alerting the user to the match if the user of the compatible device becomes in range again within a predetermined time period, without referring to the external database again.
- 131. A communications method according to Claim 116, further comprising the steps of uploading the or each said profile to a central database, said central database being adapted to store location information relating to the users; and matching users based on the attributes and requirements of the or each said profile and the location information relating to the users.
- 132. A communications system comprising at least two communication devices as claimed in Claim 60, wherein the controller of each device is respectively adapted to register a match between the device and the other device based on the symmetric profile, wherein the system is adapted to treat the attributes and requirements of each respective user equally.
- 133. A communications system comprising at least two communication devices as claimed in Claim 61, wherein the controller of each device is respectively adapted to register a match between the device and the other device based on the asymmetric profile, wherein the system is adapted to treat the attributes and requirements of each respective user differently.

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